

**STATE OF NEW HAMPSHIRE
PUBLIC UTILITIES COMMISSION
SAMPLE APPLICATION FORM**

FOR RENEWABLE ENERGY SOURCE ELIGIBILITY

Pursuant to New Hampshire Admin. Code Puc 2500 Rules

NOTE: When completing this application electronically, using the "tab" key after completing each answer will move the cursor to the next blank to be filled in. If a question is not applicable to your facility, then check the box next to N/A.

Pursuant to Puc 202, the signed application shall be filed with the Executive Director and Secretary of the New Hampshire Public Utilities Commission (Commission). To ensure that your submitted application is complete, please read RSA 362-F and N.H. Code Admin. Rules Puc 2500 before filling out this application. It is the burden of the applicant to provide timely, accurate and complete information as part of the application process. Any failure by the applicant to provide information in a timely manner may result in the Commission dismissing this application without prejudice.

1. **ELIGIBILITY CLASS APPLIED FOR:** I II III IV
2. Applicant's legal name: Mine Falls Limited Partnership (Algonquin Power)
3. Address: (1) 2845 Bristol Circle
(2) _____
(3) _____
- Oakville Ontario L6H7H7
(City) (State) (Zip code)
4. Telephone number: 905-465-4519
5. Facsimile number: 905-465-4514
6. Email address: graham.agnew@algonquinpower.com
7. Facility name: Mine Falls Dam
8. Facility location: (1) 15 Riverside Street-Hydro

(2)

Nashua NH 03062
(City) (State) (Zip code)

9. Latitude: 42° 40' 03" Longitude: 71° 34' 32""

10. The name and telephone number of the facility's operator, if different from the owner: Same

(Name) (Telephone number)

11. The ISO-New England asset identification number, if applicable: 869 or N/A:

12. The GIS facility code, if applicable: _____ or N/A:

13. A description of the facility, including fuel type, gross nameplate generation capacity, the initial commercial operation date, and the date it began operation, if different.

14. If Class I certification is sought for a generation facility that uses biomass, the applicant shall submit:

- (a) quarterly average NO_x emission rates over the past rolling year,
- (b) the most recent average particulate matter emission rates as required by the New Hampshire Department of Environmental Services (NHDES),
- (c) a description of the pollution control equipment or proposed practices for compliance with such requirements,
- (d) proof that a copy of the completed application has been filed with the NHDES, and
- (e) conduct a stack test to verify compliance with the emission standard for particulate matter no later than 12 months prior to the end of the subject calendar quarter except as provided for in RSA 362-F:12, II.
- (f) N/A: Class I certification is NOT being sought for a generation facility that uses biomass.

15. If Class I certification is sought for the incremental new production of electricity by a generation facility that uses biomass, methane or hydroelectric technologies to produce energy, the applicant shall:

- (a) demonstrate that it has made capital investments after January 1, 2006 with the successful purpose of improving the efficiency or increasing the output of renewable energy from the facility, and
- (b) supply the historical generation baseline as defined in RSA 362-F:2, X.
- (c) N/A: Class I certification is NOT being sought for the incremental new production of electricity by a generation facility that uses biomass, methane or hydroelectric technologies.

16. If Class I certification is sought for repowered Class III or Class IV sources, the applicant shall:

- (a) demonstrate that it has made new capital investments for the purpose of restoring unusable generation capacity or adding to the existing capacity, in light of the NHDES environmental permitting requirements or otherwise, and

- (b) provide documentation that eighty percent of its tax basis in the resulting plant and equipment of the eligible generation capacity, including the NHDES permitting requirements for new plants, but exclusive of any tax basis in real property and intangible assets, is derived from the new capital investments.
 - (c) N/A: Class I certification is NOT being sought for repowered Class III or Class IV sources.
17. If Class I certification is sought for formerly nonrenewable energy electric generation facilities, the applicant shall:
- (a) demonstrate that it has made new capital investments for the purpose of repowering with eligible biomass technologies or methane gas and complies with the certification requirements of Puc 2505.04, if using biomass fuels, and
 - (b) provide documentation that eighty percent of its tax basis in the resulting generation unit, including NHDES permitting requirements for new plants, but exclusive of any tax basis in real property and intangible assets, is derived from the new capital investments.
 - (c) N/A: Class I certification is NOT being sought for formerly nonrenewable energy electric generation facilities.
18. If Class IV certification is sought for an existing small hydroelectric facility, the applicant shall submit proof that:
- (a) it has installed upstream and downstream diadromous fish passages that have been required and approved under the terms of its license or exemption from the Federal Energy Regulatory Commission, and
 - (b) when required, has documented applicable state water quality certification pursuant to section 401 of the Clean Water Act for hydroelectric projects.
 - (c) N/A: Class I certification is NOT being sought for existing small hydroelectric facilities.
19. If the source is located in a control area adjacent to the New England control area, the applicant shall submit proof that the energy is delivered within the New England control area and such delivery is verified using the documentation required in Puc 2504.01(a)(2) a. to e.
20. All other necessary regulatory approvals, including any reviews, approvals or permits required by the NHDES or the environmental protection agency in the facility's state.
21. Proof that the applicant either has an approved interconnection study on file with the commission, is a party to a currently effective interconnection agreement, or is otherwise not required to undertake an interconnection study.
22. A description of how the generation facility is connected to the regional power pool of the local electric distribution utility.
23. A statement as to whether the facility has been certified under another non-federal jurisdiction's renewable portfolio standard and proof thereof.
24. A statement as to whether the facility's output has been verified by ISO-New England.

- 25. A description of how the facility's output is reported to the GIS if not verified by ISO-New England.
- 26. An affidavit by the owner attesting to the accuracy of the contents of the application.
- 27. Such other information as the applicant wishes to provide to assist in classification of the generating facility.

28. This application and all future correspondence should be sent to:

Ms. Debra A. Howland
Executive Director and Secretary
State of New Hampshire
Public Utilities Commission
21 S. Fruit St, Suite 10
Concord, NH 03301-2429

29. Preparer's information:

Name: Graham Agnew

Title: Manager, Contract Administration and Operations Analysis

Address: (1) Algonquin Power

(2) 2845 Bristol Circle

(3) _____

Oakville

(City)

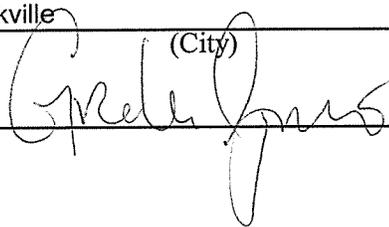
Ontario

(State)

L6H7H7

(Zip code)

30. Preparer's signature:

 FB 6/09

**Head Office - Algonquin Power
905-465-4500 – General Line**

**2845 Bristol Circle, Oakville Ontario, Canada L6H 7H7
905-465-4519 – Graham Agnew direct**

All Companies below use the Oakville address as the Owner address

None of these sites below has been certified under **another** non-federal jurisdiction's renewable energy portfolio standard. The attached letter from PSNH verifies this.

Mine Falls Limited Partnership (Mine Falls GS) (SESD#019) (ISO 869)

Location: Nashua, NH
Market Area: Real Time Hourly LMP 4002 .Z. NEWHAMPSHIRE – LOAD ZONE
Gross Capacity: 3000kW
In Service Date: January 1986

The Mine Falls Generating Station is a 3.0MW hydroelectric generating station located on the Nashua River near the City of Nashua, New Hampshire. The site is comprised of two turbine-generators housed in a new concrete powerhouse located at the site of a historic concrete dam. The site was commissioned in 1986. The site is connected at 3 phase 34.5kV.

The site is currently being paid at the open market rates from the ISO ID and market zone listed above. A small monthly capacity payment is also being paid as laid out in the PURPA regulations.

COMPETITIVELY SENSITIVE INFORMATION WHEN COMPLETED

Affidavit

I, **Graham Agnew**, Hydraulics Team Leader, of full age, being duly sworn according to law, depose and say:

1. I am **Graham Agnew** of Algonquin Power and as such I am fully aware of the facts set forth herein and I am authorized to make this affidavit;
2. Algonquin Power as the Owner/Operator of these sites is mandated to submit an application in the New Hampshire Code of Administrative Rules under the PUC Section 2505.02 Application Requirements (a) and (b);
3. This Affidavit is to verify the accuracy of the contents of this application.

Graham Agnew
Signature

JAN 2, 2009
Date

GRAHAM AGNEW
Name

MANAGER, CONTRACT ADMINISTRATION
Title

HYDRAULICS TEAM LEADER

Notary's Signature

ANNE PATRICIA FRANCIS,
A COMMISSIONER, ETC.,
REGIONAL MUNICIPALITY OF HALTON,
FOR ALGONQUIN POWER INCOME FUND,
EXPIRES JANUARY 14, 2011

Anne P. Francis

Graham Agnew

From: cecchd@nu.com
Sent: August 5, 2008 12:18 PM
To: Graham Agnew
Cc: frasemf@nu.com; vogelcn@nu.com
Subject: RE: ISO-NE GIS or ID numbers

Graham,

All New England projects are listed in the ISO/NEPOOL GIS system. The project owner (Algonquin) has the right to have this account placed in their control otherwise, ISO requires the host utility to be the account holder. You will need to call customer service at ISO-NE on how to proceed. In looking at the facilities on the GIS website, there is no Renewable Energy information entered.

Diane Cecchetti
Analyst
Supplemental Energy Sources
Public Service Co of N.H.
(603) 634-2888
(603) 634-2449 Fax

"Graham Agnew"
<Graham.Agnew@algonquinpower.com>

Diane G. Cecchetti/NUS@NU

To

cc

07/28/2008 04:02
PM

Subject

RE: ISO-NE GIS or ID numbers

Hi Diane, yes I am putting together an application package and a part of the requirements for this package is:

"a statement as to whether the facility has been certified under another non-federal jurisdiction's renewable portfolio standard and proof thereof".

How would you suggest I get this proof?

Regards,

Graham Agnew
Hydraulics Team Leader
Algonquin Power Systems
graham.agnew@algonquinpower.com
905-465-4519
905-465-4514 - fax

-----Original Message-----

From: cecchd@nu.com [mailto:cecchd@nu.com]
Sent: July 28, 2008 3:34 PM
To: Graham Agnew

Subject: RE: ISO-NE GIS or ID numbers

Algonquin would be responsible to register and manage these types of accounts. PSNH would only get involved after registration, therefore I would refer you to www.nepoolgis.com or

GIS Program and System Questions Contact:

GIS Administrator- Bryan Gower

Tel: 408-517-2118

Fax: 408-517-2985

gis@apx.com

OR

24 Hr Help Desk- 1-800-924-9889

Diane Cecchetti
Analyst
Supplemental Energy Sources
Public Service Co of N.H.
(603) 634-2888
(603) 634-2449 Fax

"Graham Agnew"

<Graham.Agnew@alg

[onquinpower.com](mailto:Graham.Agnew@alg)>

To

Diane G. Cecchetti/NUS@NU

cc

07/28/2008 11:42

AM

Subject

RE: ISO-NE GIS or ID numbers

Hi Diane,

Is there anything that you would be able to provide for me that tells the reader that Algonquin is not currently registered under any other renewable standard portfolio?

Regards,

Graham Agnew
Hydraulics Team Leader
Algonquin Power Systems
graham.agnew@algonquinpower.com
905-465-4519
905-465-4514 - fax

-----Original Message-----

From: cecchd@nu.com [mailto:cecchd@nu.com]
Sent: July 15, 2008 12:55 PM
To: Graham Agnew
Subject: Re: ISO-NE GIS or ID numbers

Hi Graham

The Asset ID's are listed below.

Hope all is well

Diane

"Graham Agnew"

<Graham.Agnew@algonquinpower.com>

To

Diane G. Cecchetti/NUS@NU

cc

07/15/2008 11:54

AM

Subject

ISO-NE GIS or ID numbers

Hi Diane, I am applying to the ISI-NE for REC's and I need some information that you may be able to help me with.

Do you have the ISO ID number or GIS number for:

Lakeport	892
Mine Falls	869
Milton	868
River Bend	875
Stevens Mill	885
Greggs Falls	866
Pembroke	870
Lochmere	904

Regards,

Graham Agnew
 Hydraulics Team Leader
 Algonquin Power Systems
 graham.agnew@algonquinpower.com
 905-465-4519
 905-465-4514 - fax

-----Original Message-----

From: cecchd@nu.com [mailto:cecchd@nu.com]

Sent: January 15, 2008 3:58 PM

To: Andy Ling

Cc: Graham Agnew; Michelle Hunt; vogelcn@nu.com; frasemf@nu.com; martide@nu.com

Subject: Re: Fw: Sale of our NE assets to Ashuelot River Hydro

 This e-mail, including any files or attachments transmitted with it, is confidential and intended for a specific purpose and for use only by the individual or entity to whom it is addressed. Any disclosure, copying or distribution of this e-mail or the taking of any action based on its contents, other than for its intended purpose, is strictly prohibited. If you have received this e-mail in error, please notify the sender immediately and delete it from your system. Any views or opinions expressed in this e-mail are not necessarily those of Northeast Utilities, its subsidiaries and affiliates (NU). E-mail transmission cannot be guaranteed to be error-free or secure or free from viruses, and NU disclaims all liability for any resulting damage, errors, or omissions.

SMALL POWER PRODUCER GENERATION

R/W # 609.73



**Public Service
of New Hampshire**

Public Service of New Hampshire
Supplemental Energy Sources Department
PO Box 330
Manchester, NH 03106-0330

Mine Falls

Mine Falls Hydroelectric, LP
c/o Algonquin Power Fund (America) Inc.
2845 Bristol Circle
Oakville, Ontario, Canada L6H 7H7

SESD # **019**
Billing Period: **May 2008**

Invoice Date 06/03/2008
Expected Payment Date 06/24/2008
PO/Acct # S00002746
Release #
Tel # 905-465-4519
Fax # or Email 905-465-4514

Delivery Period: 05/01/2008 through 05/31/2008

Total Generation Delivered (Kwhrs) 1,278,347

Total Short Term Energy Payment \$ 136,593.78

The weighted average hourly price for this invoice equals 10.69 ¢/Kwhr

Seasonal Claimed Capability	EFORD	Monthly Capacity	Rate \$/Kw-mo	
3000	0.0462	2861	\$3.05	
3000	x (1 - 0.0462)	= 2861.4	x 3.05	= \$8,727.27
			Adjustments	\$0.00
			Total Payment Due	\$ 145,321.05

The Energy Payment is based upon the attached hourly NH Zone ISO Clearing Prices.

Notes Included in this invoice is the FCM Value for your project in March as credited by ISO-NE

Approved by: _____

Date: _____

JUN 04 2008

Please Approve and Submit this Invoice to:

Danielle Martineau
PSNH, PO Box 330
Manchester, NH 03105-0330

Please contact Diane Cecchetti at PSNH (603-634-2888), FAX (603-634-2449) with questions.

#019 Mine Falls

Energy Payment

\$136,593.78

MINE FALLS 05/01/08 0000 TO 05/31/08 2400

SESD #019

DST 10/31/04

Total KW-hrs

1,278,347

DATE	HOUR	TOTAL KWH SOLD	ISO CLEARING PRICE \$(MWH)	¢(KWH)	ENERGY PAYMENT
20080501	1	3178.000	84.11	8.411	267.30
20080501	2	3180.799	85.67	8.567	272.50
20080501	3	3173.799	84.37	8.437	267.77
20080501	4	3173.799	80.33	8.033	254.95
20080501	5	3172.399	56.21	5.621	178.32
20080501	6	3168.199	84.23	8.423	266.86
20080501	7	3158.399	97.21	9.721	307.03
20080501	8	3155.599	99.76	9.976	314.80
20080501	9	3147.199	98.90	9.890	311.26
20080501	10	3130.399	99.93	9.993	312.82
20080501	11	3086.999	101.68	10.168	313.89
20080501	12	3008.599	98.53	9.853	296.44
20080501	13	2955.399	104.49	10.449	308.81
20080501	14	2672.600	97.92	9.792	261.70
20080501	15	2741.199	96.24	9.624	263.81
20080501	16	3191.999	92.16	9.216	294.17
20080501	17	3184.999	98.38	9.838	313.34
20080501	18	3155.599	96.60	9.660	304.83
20080501	19	3088.400	89.05	8.905	275.02
20080501	20	2931.599	92.72	9.272	271.82
20080501	21	2630.600	130.09	13.009	342.21
20080501	22	2445.800	130.68	13.068	319.62
20080501	23	2286.199	85.24	8.524	194.88
20080501	24	2168.600	72.80	7.280	157.87
20080502	1	2139.199	77.57	7.757	165.94
20080502	2	2134.999	78.25	7.825	167.06
20080502	3	2140.599	79.42	7.942	170.01
20080502	4	2153.200	79.14	7.914	170.40
20080502	5	2609.600	81.70	8.170	213.20
20080502	6	3361.400	75.60	7.560	254.12
20080502	7	3365.599	100.21	10.021	337.27
20080502	8	3365.599	114.09	11.409	383.98
20080502	9	3365.599	118.74	11.874	399.63
20080502	10	3369.800	132.23	13.223	445.59
20080502	11	3376.799	119.42	11.942	403.26
20080502	12	3372.600	180.23	18.023	607.84
20080502	13	3373.999	124.68	12.468	420.67
20080502	14	3382.399	102.86	10.286	347.91
20080502	15	3387.999	119.75	11.975	405.71
20080502	16	3388.000	149.06	14.906	505.02
20080502	17	3388.000	158.00	15.800	535.30
20080502	18	3389.400	148.34	14.834	502.78
20080502	19	3388.000	112.54	11.254	381.29
20080502	20	3385.199	142.66	14.266	482.93
20080502	21	3385.199	175.33	17.533	593.53
20080502	22	3383.800	95.40	9.540	322.81
20080502	23	3383.799	96.13	9.613	325.28
20080502	24	3382.399	131.70	13.170	445.46
20080503	1	3383.799	123.54	12.354	418.03
20080503	2	3386.600	83.45	8.345	282.61
20080503	3	3386.600	100.32	10.032	339.74
20080503	4	3385.199	89.25	8.925	302.13
20080503	5	3385.199	93.89	9.389	317.84
20080503	6	3385.199	102.72	10.272	347.73

#019 Mine Falls

DATE	HOUR	TOTAL KWH SOLD	ISO CLEARING PRICE \$(MWH)	¢(KWH)	ENERGY PAYMENT
20080503	7	3383.799	113.44	11.344	383.86
20080503	8	3383.799	84.58	8.458	286.20
20080503	9	2461.200	99.48	9.948	244.84
20080503	10	3380.999	150.06	15.006	507.35
20080503	11	3386.600	372.93	37.293	1,262.96
20080503	12	3383.799	198.24	19.824	670.80
20080503	13	3380.999	104.99	10.499	354.97
20080503	14	3378.199	108.88	10.888	367.82
20080503	15	3378.199	84.51	8.451	285.49
20080503	16	3374.000	85.85	8.585	289.66
20080503	17	3372.600	88.25	8.825	297.63
20080503	18	3365.599	90.92	9.092	306.00
20080503	19	3352.999	91.75	9.175	307.64
20080503	20	3323.599	104.12	10.412	346.05
20080503	21	3278.800	91.53	9.153	300.11
20080503	22	3225.599	117.15	11.715	377.88
20080503	23	3166.800	90.72	9.072	287.29
20080503	24	3127.600	85.01	8.501	265.88
20080504	1	3109.400	94.04	9.404	292.41
20080504	2	3103.800	96.39	9.639	299.18
20080504	3	3103.799	89.45	8.945	277.63
20080504	4	3148.600	95.97	9.597	302.17
20080504	5	3193.399	87.97	8.797	280.92
20080504	6	3222.799	83.96	8.396	270.59
20080504	7	3257.800	100.51	10.051	327.44
20080504	8	3268.999	76.95	7.695	251.55
20080504	9	3273.199	81.42	8.142	266.50
20080504	10	3271.799	82.89	8.289	271.20
20080504	11	3260.599	87.15	8.715	284.16
20080504	12	3240.999	98.45	9.845	319.08
20080504	13	3219.999	112.51	11.251	362.28
20080504	14	3201.799	135.03	13.503	432.34
20080504	15	3196.199	99.26	9.926	317.25
20080504	16	3193.399	93.95	9.395	300.02
20080504	17	3198.999	112.27	11.227	359.15
20080504	18	3196.199	120.15	12.015	384.02
20080504	19	3201.799	106.55	10.655	341.15
20080504	20	3225.600	118.17	11.817	381.17
20080504	21	3259.200	141.27	14.127	460.43
20080504	22	3256.399	120.89	12.089	393.67
20080504	23	3257.799	92.05	9.205	299.88
20080504	24	3253.599	75.21	7.521	244.70
20080505	1	3235.399	78.64	7.864	254.43
20080505	2	3218.600	82.20	8.220	264.57
20080505	3	3205.999	80.49	8.049	258.05
20080505	4	3185.000	86.11	8.611	274.26
20080505	5	3163.999	91.96	9.196	290.96
20080505	6	3159.799	102.96	10.296	325.33
20080505	7	3150.000	144.49	14.449	455.14
20080505	8	3151.400	170.92	17.092	538.64
20080505	9	3151.400	244.10	24.410	769.26
20080505	10	3172.400	179.90	17.990	570.71
20080505	11	3186.399	159.78	15.978	509.12
20080505	12	3205.999	201.99	20.199	647.58
20080505	13	3219.999	250.89	25.089	807.87
20080505	14	3233.999	226.84	22.684	733.60
20080505	15	3249.399	247.93	24.793	805.62
20080505	16	3249.400	267.49	26.749	869.18
20080505	17	3243.799	226.09	22.609	733.39

#019 Mine Falls

DATE	HOUR	TOTAL KWH SOLD	ISO CLEARING PRICE \$(MWH)	¢(KWH)	ENERGY PAYMENT
20080505	18	3229.799	135.72	13.572	438.35
20080505	19	3198.999	132.54	13.254	424.00
20080505	20	3156.999	169.28	16.928	534.42
20080505	21	3117.800	165.29	16.529	515.34
20080505	22	3067.400	186.38	18.638	571.70
20080505	23	3067.400	103.23	10.323	316.65
20080505	24	3056.200	96.65	9.665	295.38
20080506	1	3054.799	93.91	9.391	286.88
20080506	2	3082.800	145.05	14.505	447.16
20080506	3	3123.399	87.63	8.763	273.70
20080506	4	3152.799	85.62	8.562	269.94
20080506	5	3175.199	86.32	8.632	274.08
20080506	6	3180.800	90.56	9.056	288.05
20080506	7	3176.599	152.37	15.237	484.02
20080506	8	3130.400	146.03	14.603	457.13
20080506	9	3049.200	180.84	18.084	551.42
20080506	10	2218.999	240.73	24.073	534.18
20080506	11	3228.400	180.04	18.004	581.24
20080506	12	3276.000	160.10	16.010	524.49
20080506	13	3266.199	166.94	16.694	545.26
20080506	14	3204.599	192.14	19.214	615.73
20080506	15	3081.399	174.43	17.443	537.49
20080506	16	2921.800	263.94	26.394	771.18
20080506	17	2745.400	228.84	22.884	628.26
20080506	18	2574.599	201.71	20.171	519.32
20080506	19	2483.599	139.96	13.996	347.60
20080506	20	2472.399	147.84	14.784	365.52
20080506	21	2524.200	247.19	24.719	623.96
20080506	22	2609.599	203.85	20.385	531.97
20080506	23	2710.399	98.45	9.845	266.84
20080506	24	2715.999	127.51	12.751	346.32
20080507	1	2420.599	90.43	9.043	218.89
20080507	2	1930.599	87.72	8.772	169.35
20080507	3	1649.200	86.34	8.634	142.39
20080507	4	281.399	85.02	8.502	23.92
20080507	5	215.599	85.34	8.534	18.40
20080507	6	218.399	104.16	10.416	22.75
20080507	7	530.599	198.34	19.834	105.24
20080507	8	1544.199	257.95	25.795	398.33
20080507	9	2540.999	281.75	28.175	715.93
20080507	10	3296.999	339.96	33.996	1,120.85
20080507	11	3353.000	232.93	23.293	781.01
20080507	12	3063.199	328.20	32.820	1,005.34
20080507	13	1993.599	242.92	24.292	484.29
20080507	14	1702.399	305.08	30.508	519.37
20080507	15	1675.799	163.86	16.386	274.60
20080507	16	1859.199	148.13	14.813	275.40
20080507	17	2195.200	173.94	17.394	381.83
20080507	18	2490.600	228.13	22.813	568.18
20080507	19	2548.000	129.52	12.952	330.02
20080507	20	2545.200	176.84	17.684	450.09
20080507	21	2545.199	240.90	24.090	613.14
20080507	22	2549.400	159.33	15.933	406.20
20080507	23	2545.200	105.73	10.573	269.10
20080507	24	2515.800	91.22	9.122	229.49
20080508	1	1796.200	92.70	9.270	166.51
20080508	2	2106.999	87.47	8.747	184.30
20080508	3	2454.199	37.72	3.772	92.57
20080508	4	2448.600	41.92	4.192	102.65

#019 Mine Falls

DATE	HOUR	TOTAL KWH SOLD	ISO CLEARING PRICE \$(MWH)	¢(KWH)	ENERGY PAYMENT
20080508	5	2442.999	79.87	7.987	195.12
20080508	6	2431.799	85.98	8.598	209.09
20080508	7	2413.599	89.57	8.957	216.19
20080508	8	2413.599	116.44	11.644	281.04
20080508	9	2094.399	150.09	15.009	314.35
20080508	10	2325.399	155.87	15.587	362.46
20080508	11	2008.999	150.41	15.041	302.17
20080508	12	2532.599	143.87	14.387	364.37
20080508	13	2486.399	149.35	14.935	371.34
20080508	14	2388.399	125.04	12.504	298.65
20080508	15	2272.199	139.50	13.950	316.97
20080508	16	2172.800	142.29	14.229	309.17
20080508	17	2123.800	113.43	11.343	240.90
20080508	18	2106.999	95.70	9.570	201.64
20080508	19	2102.800	96.71	9.671	203.36
20080508	20	2098.600	88.24	8.824	185.18
20080508	21	2090.200	116.57	11.657	243.65
20080508	22	2090.200	95.86	9.586	200.37
20080508	23	2105.599	54.68	5.468	115.13
20080508	24	2147.600	61.22	6.122	131.48
20080509	1	2172.800	43.48	4.348	94.47
20080509	2	2174.200	59.69	5.969	129.78
20080509	3	2174.199	30.77	3.077	66.90
20080509	4	2123.800	0.00	0.000	0.00
20080509	5	2046.800	18.53	1.853	37.93
20080509	6	2003.399	44.53	4.453	89.21
20080509	7	1951.599	84.43	8.443	164.77
20080509	8	1411.200	98.70	9.870	139.29
20080509	9	1584.799	90.55	9.055	143.50
20080509	10	1776.599	90.43	9.043	160.66
20080509	11	2140.600	92.75	9.275	198.54
20080509	12	1628.199	100.17	10.017	163.10
20080509	13	1671.599	90.72	9.072	151.65
20080509	14	1903.999	91.92	9.192	175.02
20080509	15	2077.599	89.46	8.946	185.86
20080509	16	2212.000	91.47	9.147	202.33
20080509	17	2284.800	90.11	9.011	205.88
20080509	18	2316.999	90.78	9.078	210.34
20080509	19	2260.999	90.42	9.042	204.44
20080509	20	2115.400	92.93	9.293	196.58
20080509	21	1923.600	101.12	10.112	194.51
20080509	22	1709.399	93.11	9.311	159.16
20080509	23	1558.200	84.54	8.454	131.73
20080509	24	1479.800	82.79	8.279	122.51
20080510	1	1476.999	85.73	8.573	126.62
20080510	2	1532.999	106.17	10.617	162.76
20080510	3	1712.199	76.03	7.603	130.18
20080510	4	1895.600	67.54	6.754	128.03
20080510	5	2064.999	59.16	5.916	122.17
20080510	6	2155.999	86.79	8.679	187.12
20080510	7	1612.800	88.33	8.833	142.46
20080510	8	1724.800	103.78	10.378	179.00
20080510	9	1831.199	101.80	10.180	186.42
20080510	10	1863.400	88.10	8.810	164.17
20080510	11	1863.400	130.74	13.074	243.62
20080510	12	1863.400	176.66	17.666	329.19
20080510	13	1860.600	88.46	8.846	164.59
20080510	14	1857.799	88.96	8.896	165.27
20080510	15	1859.199	90.05	9.005	167.42

#019 Mine Falls

DATE	HOUR	TOTAL KWH SOLD	ISO CLEARING PRICE \$(MWH)	¢(KWH)	ENERGY PAYMENT
20080510	16	1859.199	86.74	8.674	161.27
20080510	17	1859.200	87.33	8.733	162.36
20080510	18	1860.600	87.83	8.783	163.42
20080510	19	1860.600	82.39	8.239	153.29
20080510	20	1861.999	84.99	8.499	158.25
20080510	21	1863.400	92.87	9.287	173.05
20080510	22	1861.999	89.24	8.924	166.16
20080510	23	1860.600	83.51	8.351	155.38
20080510	24	1857.799	82.59	8.259	153.44
20080511	1	1854.999	78.04	7.804	144.76
20080511	2	1856.399	71.11	7.111	132.01
20080511	3	1854.999	76.66	7.666	142.20
20080511	4	1854.999	81.28	8.128	150.77
20080511	5	1853.599	85.67	8.567	158.80
20080511	6	1853.599	53.48	5.348	99.13
20080511	7	1854.999	61.30	6.130	113.71
20080511	8	1854.999	45.66	4.566	84.70
20080511	9	1850.799	79.68	7.968	147.47
20080511	10	1853.599	88.46	8.846	163.97
20080511	11	1853.599	96.31	9.631	178.52
20080511	12	1850.799	84.75	8.475	156.86
20080511	13	1846.600	83.59	8.359	154.36
20080511	14	1831.199	78.13	7.813	143.07
20080511	15	1810.199	88.81	8.881	160.76
20080511	16	1782.200	85.39	8.539	152.18
20080511	17	1748.599	66.49	6.649	116.26
20080511	18	1702.400	86.63	8.663	147.48
20080511	19	1685.599	72.88	7.288	122.85
20080511	20	1672.999	90.44	9.044	151.31
20080511	21	1672.999	132.98	13.298	222.48
20080511	22	1671.599	107.95	10.795	180.45
20080511	23	1671.599	84.78	8.478	141.72
20080511	24	1672.999	53.97	5.397	90.29
20080512	1	1672.999	71.37	7.137	119.40
20080512	2	1677.199	78.00	7.800	130.82
20080512	3	1677.200	80.65	8.065	135.27
20080512	4	1670.199	75.30	7.530	125.77
20080512	5	1664.600	59.71	5.971	99.39
20080512	6	1650.600	49.91	4.991	82.38
20080512	7	1646.399	79.90	7.990	131.55
20080512	8	1625.399	108.42	10.842	176.23
20080512	9	1588.999	109.61	10.961	174.17
20080512	10	1377.600	96.15	9.615	132.46
20080512	11	1524.600	134.71	13.471	205.38
20080512	12	1563.799	108.93	10.893	170.34
20080512	13	1565.199	95.01	9.501	148.71
20080512	14	1563.799	111.53	11.153	174.41
20080512	15	1563.799	97.04	9.704	151.75
20080512	16	1565.199	92.40	9.240	144.62
20080512	17	1565.199	91.02	9.102	142.46
20080512	18	1569.400	93.58	9.358	146.86
20080512	19	1569.400	102.57	10.257	160.97
20080512	20	1568.000	116.56	11.656	182.77
20080512	21	1561.000	135.80	13.580	211.98
20080512	22	1551.199	103.91	10.391	161.19
20080512	23	1549.799	87.19	8.719	135.13
20080512	24	1549.799	82.79	8.279	128.31
20080513	1	1551.199	68.15	6.815	105.71
20080513	2	1551.199	69.87	6.987	108.38

#019 Mine Falls

DATE	HOUR	TOTAL KWH SOLD	ISO CLEARING PRICE \$(MWH)	¢(KWH)	ENERGY PAYMENT
20080513	3	1538.599	86.56	8.656	133.18
20080513	4	1518.999	98.14	9.814	149.07
20080513	5	1517.599	103.69	10.369	157.36
20080513	6	1506.399	67.20	6.720	101.23
20080513	7	1498.000	96.70	9.670	144.86
20080513	8	1498.000	135.32	13.532	202.71
20080513	9	1486.799	107.21	10.721	159.40
20080513	10	1476.999	90.69	9.069	133.95
20080513	11	1479.799	91.94	9.194	136.05
20080513	12	1475.599	97.26	9.726	143.52
20080513	13	1474.199	90.01	9.001	132.69
20080513	14	1472.800	92.74	9.274	136.59
20080513	15	1460.200	96.08	9.608	140.30
20080513	16	1448.999	93.68	9.368	135.74
20080513	17	1447.599	103.14	10.314	149.31
20080513	18	1448.999	107.77	10.777	156.16
20080513	19	1468.599	93.24	9.324	136.93
20080513	20	1499.400	94.17	9.417	141.20
20080513	21	1565.200	99.78	9.978	156.18
20080513	22	1714.999	105.16	10.516	180.35
20080513	23	1867.599	80.12	8.012	149.63
20080513	24	1877.400	79.54	7.954	149.33
20080514	1	1878.799	77.69	7.769	145.96
20080514	2	1877.400	67.65	6.765	127.01
20080514	3	1881.599	81.23	8.123	152.84
20080514	4	1884.399	87.54	8.754	164.96
20080514	5	1882.999	79.89	7.989	150.43
20080514	6	1884.399	85.92	8.592	161.91
20080514	7	2266.600	122.36	12.236	277.34
20080514	8	2854.600	152.10	15.210	434.18
20080514	9	2844.800	102.55	10.255	291.73
20080514	10	2427.599	107.64	10.764	261.31
20080514	11	1700.999	88.69	8.869	150.86
20080514	12	1065.400	92.77	9.277	98.84
20080514	13	698.599	99.66	9.966	69.62
20080514	14	501.199	115.43	11.543	57.85
20080514	15	445.199	111.35	11.135	49.57
20080514	16	461.999	136.25	13.625	62.95
20080514	17	567.000	129.69	12.969	73.53
20080514	18	754.599	102.01	10.201	76.98
20080514	19	977.200	98.29	9.829	96.05
20080514	20	1142.399	105.29	10.529	120.28
20080514	21	1212.399	141.51	14.151	171.57
20080514	22	1255.799	124.30	12.430	156.10
20080514	23	1287.999	128.18	12.818	165.10
20080514	24	1328.600	92.58	9.258	123.00
20080515	1	1384.600	83.12	8.312	115.09
20080515	2	1423.800	72.56	7.256	103.31
20080515	3	1460.200	93.62	9.362	136.70
20080515	4	1474.199	86.57	8.657	127.62
20080515	5	1475.599	87.21	8.721	128.69
20080515	6	1472.799	85.77	8.577	126.32
20080515	7	1469.999	82.46	8.246	121.22
20080515	8	1455.999	100.40	10.040	146.18
20080515	9	1415.400	125.87	12.587	178.16
20080515	10	1355.199	118.54	11.854	160.65
20080515	11	1290.800	130.89	13.089	168.95
20080515	12	1251.599	96.33	9.633	120.57
20080515	13	1251.599	95.21	9.521	119.16

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DATE	HOUR	TOTAL KWH SOLD	ISO CLEARING PRICE \$(MWH)	¢(KWH)	ENERGY PAYMENT
20080515	14	1266.999	91.81	9.181	116.32
20080515	15	1350.999	96.57	9.657	130.47
20080515	16	1453.200	112.95	11.295	164.14
20080515	17	1545.600	125.58	12.558	194.10
20080515	18	1604.399	119.66	11.966	191.98
20080515	19	1635.199	106.27	10.627	173.77
20080515	20	1636.600	100.36	10.036	164.25
20080515	21	1628.199	150.65	15.065	245.29
20080515	22	1573.600	113.33	11.333	178.34
20080515	23	1490.999	88.71	8.871	132.27
20080515	24	1372.000	74.65	7.465	102.42
20080516	1	1215.199	82.10	8.210	99.77
20080516	2	1161.999	77.81	7.781	90.42
20080516	3	1152.199	65.65	6.565	75.64
20080516	4	1177.399	84.65	8.465	99.67
20080516	5	1278.200	79.04	7.904	101.03
20080516	6	1401.399	73.84	7.384	103.48
20080516	7	1530.199	99.34	9.934	152.01
20080516	8	1584.799	120.00	12.000	190.18
20080516	9	1122.799	128.74	12.874	144.55
20080516	10	1677.199	144.57	14.457	242.47
20080516	11	1698.199	165.56	16.556	281.15
20080516	12	1671.600	131.71	13.171	220.17
20080516	13	1537.200	125.69	12.569	193.21
20080516	14	1381.799	108.09	10.809	149.36
20080516	15	1220.799	97.85	9.785	119.46
20080516	16	1122.800	91.33	9.133	102.55
20080516	17	1078.000	95.22	9.522	102.65
20080516	18	1080.800	92.15	9.215	99.60
20080516	19	1145.199	91.37	9.137	104.64
20080516	20	1293.599	95.81	9.581	123.94
20080516	21	1465.799	97.25	9.725	142.55
20080516	22	1622.599	88.28	8.828	143.24
20080516	23	1713.599	34.03	3.403	58.31
20080516	24	1728.999	77.15	7.715	133.39
20080517	1	1716.400	84.18	8.418	144.49
20080517	2	1640.799	103.24	10.324	169.40
20080517	3	1499.400	84.16	8.416	126.19
20080517	4	1342.600	71.90	7.190	96.53
20080517	5	1254.399	82.32	8.232	103.26
20080517	6	1203.999	87.26	8.726	105.06
20080517	7	1202.600	63.79	6.379	76.71
20080517	8	1226.399	63.77	6.377	78.21
20080517	9	1203.999	97.87	9.787	117.84
20080517	10	1850.800	109.93	10.993	203.46
20080517	11	1909.599	103.20	10.320	197.07
20080517	12	1899.799	86.50	8.650	164.33
20080517	13	1772.400	118.65	11.865	210.30
20080517	14	1580.599	99.43	9.943	157.16
20080517	15	1377.600	99.72	9.972	137.37
20080517	16	1229.200	109.19	10.919	134.22
20080517	17	1166.200	119.15	11.915	138.95
20080517	18	1194.200	121.19	12.119	144.73
20080517	19	1350.999	104.71	10.471	141.46
20080517	20	1561.000	109.80	10.980	171.40
20080517	21	1754.199	148.75	14.875	260.94
20080517	22	1916.600	109.58	10.958	210.02
20080517	23	2011.799	85.30	8.530	171.61
20080517	24	2046.799	84.29	8.429	172.52

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DATE	HOUR	TOTAL KWH SOLD	ISO CLEARING PRICE \$(MWH)	¢(KWH)	ENERGY PAYMENT
20080518	1	2055.199	86.52	8.652	177.82
20080518	2	2018.799	85.35	8.535	172.30
20080518	3	1915.200	84.40	8.440	161.64
20080518	4	1763.999	116.20	11.620	204.98
20080518	5	1646.400	82.89	8.289	136.47
20080518	6	1567.999	81.46	8.146	127.73
20080518	7	1565.199	90.40	9.040	141.49
20080518	8	1612.800	86.75	8.675	139.91
20080518	9	1789.199	122.79	12.279	219.70
20080518	10	1894.199	129.10	12.910	244.54
20080518	11	1976.799	114.89	11.489	227.11
20080518	12	1868.999	128.23	12.823	239.66
20080518	13	2196.600	139.75	13.975	306.97
20080518	14	2307.200	118.58	11.858	273.59
20080518	15	2214.800	113.72	11.372	251.87
20080518	16	2043.999	120.70	12.070	246.71
20080518	17	1755.600	148.74	14.874	261.13
20080518	18	1482.600	204.62	20.462	303.37
20080518	19	1310.399	121.45	12.145	159.15
20080518	20	1275.399	110.00	11.000	140.29
20080518	21	1373.399	130.81	13.081	179.65
20080518	22	1542.800	82.75	8.275	127.67
20080518	23	1748.599	85.29	8.529	149.14
20080518	24	1979.600	84.76	8.476	167.79
20080519	1	2120.999	86.92	8.692	184.36
20080519	2	2158.799	77.31	7.731	166.90
20080519	3	2125.199	70.61	7.061	150.06
20080519	4	1993.599	72.41	7.241	144.36
20080519	5	1805.999	73.83	7.383	133.34
20080519	6	1608.599	52.03	5.203	83.70
20080519	7	1411.200	79.22	7.922	111.80
20080519	8	1325.799	87.78	8.778	116.38
20080519	9	1380.400	83.98	8.398	115.93
20080519	10	1465.800	93.11	9.311	136.48
20080519	11	1594.600	90.23	9.023	143.88
20080519	12	1779.399	96.01	9.601	170.84
20080519	13	1938.999	92.05	9.205	178.48
20080519	14	2006.200	96.93	9.693	194.46
20080519	15	2017.400	95.14	9.514	191.94
20080519	16	1972.600	114.49	11.449	225.84
20080519	17	1838.200	92.73	9.273	170.46
20080519	18	1671.600	89.72	8.972	149.98
20080519	19	1481.200	85.67	8.567	126.89
20080519	20	1329.999	86.18	8.618	114.62
20080519	21	1274.000	88.92	8.892	113.28
20080519	22	1271.200	88.04	8.804	111.92
20080519	23	1418.200	79.67	7.967	112.99
20080519	24	1605.799	74.99	7.499	120.42
20080520	1	1807.399	65.89	6.589	119.09
20080520	2	1969.800	61.17	6.117	120.49
20080520	3	2081.800	80.12	8.012	166.79
20080520	4	2136.400	62.14	6.214	132.76
20080520	5	2116.800	80.11	8.011	169.58
20080520	6	1988.000	82.73	8.273	164.47
20080520	7	1799.000	112.99	11.299	203.27
20080520	8	1598.800	101.02	10.102	161.51
20080520	9	1383.200	103.23	10.323	142.79
20080520	10	1206.800	146.85	14.685	177.22
20080520	11	1140.999	110.38	11.038	125.94

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DATE	HOUR	TOTAL KWH SOLD	ISO CLEARING PRICE \$(MWH)	¢(KWH)	ENERGY PAYMENT
20080520	12	1145.199	104.73	10.473	119.94
20080520	13	1234.799	104.39	10.439	128.90
20080520	14	1444.800	116.06	11.606	167.68
20080520	15	1612.800	121.29	12.129	195.62
20080520	16	1738.800	112.82	11.282	196.17
20080520	17	1763.999	138.38	13.838	244.10
20080520	18	1758.400	90.65	9.065	159.40
20080520	19	1681.400	89.15	8.915	149.90
20080520	20	1332.800	92.29	9.229	123.00
20080520	21	768.599	99.16	9.916	76.21
20080520	22	824.599	88.67	8.867	73.12
20080520	23	1055.599	100.11	10.011	105.68
20080520	24	1388.800	121.36	12.136	168.54
20080521	1	1688.400	137.15	13.715	231.56
20080521	2	1811.600	82.87	8.287	150.13
20080521	3	1847.999	77.49	7.749	143.20
20080521	4	1845.200	45.89	4.589	84.68
20080521	5	1790.599	80.36	8.036	143.89
20080521	6	1672.999	44.80	4.480	74.95
20080521	7	1427.999	59.82	5.982	85.42
20080521	8	1138.199	88.37	8.837	100.58
20080521	9	903.000	99.48	9.948	89.83
20080521	10	821.800	110.39	11.039	90.72
20080521	11	845.599	106.75	10.675	90.27
20080521	12	1038.799	94.04	9.404	97.69
20080521	13	1266.999	100.92	10.092	127.87
20080521	14	1469.999	104.83	10.483	154.10
20080521	15	1632.400	93.32	9.332	152.34
20080521	16	1734.600	89.48	8.948	155.21
20080521	17	1765.400	90.29	9.029	159.40
20080521	18	1738.799	91.34	9.134	158.82
20080521	19	1625.399	88.04	8.804	143.10
20080521	20	1467.199	87.97	8.797	129.07
20080521	21	1280.999	86.86	8.686	111.27
20080521	22	1087.799	86.87	8.687	94.50
20080521	23	880.599	80.39	8.039	70.79
20080521	24	796.600	81.05	8.105	64.56
20080522	1	809.200	64.89	6.489	52.51
20080522	2	978.600	39.64	3.964	38.79
20080522	3	1209.599	83.58	8.358	101.10
20080522	4	1453.199	73.68	7.368	107.07
20080522	5	1618.400	47.89	4.789	77.51
20080522	6	1698.200	52.81	5.281	89.68
20080522	7	1707.999	64.69	6.469	110.49
20080522	8	1649.199	93.64	9.364	154.43
20080522	9	1500.799	90.19	9.019	135.36
20080522	10	1297.799	88.59	8.859	114.97
20080522	11	1058.400	87.36	8.736	92.46
20080522	12	876.399	83.43	8.343	73.12
20080522	13	830.199	85.68	8.568	71.13
20080522	14	862.400	91.13	9.113	78.59
20080522	15	1028.999	99.40	9.940	102.28
20080522	16	1231.999	96.20	9.620	118.52
20080522	17	1423.799	93.86	9.386	133.64
20080522	18	1553.999	90.98	9.098	141.38
20080522	19	1608.599	88.82	8.882	142.88
20080522	20	1632.399	89.97	8.997	146.87
20080522	21	1597.399	92.84	9.284	148.30
20080522	22	1467.200	89.84	8.984	131.81

#019 Mine Falls

DATE	HOUR	TOTAL KWH SOLD	ISO CLEARING PRICE \$(MWH)	¢(KWH)	ENERGY PAYMENT
20080522	23	1286.599	57.80	5.780	74.37
20080522	24	1087.799	69.07	6.907	75.13
20080523	1	898.799	88.65	8.865	79.68
20080523	2	796.599	81.86	8.186	65.21
20080523	3	779.799	72.99	7.299	56.92
20080523	4	825.999	74.76	7.476	61.75
20080523	5	1005.200	88.73	8.873	89.19
20080523	6	1212.400	74.45	7.445	90.26
20080523	7	1402.800	86.89	8.689	121.89
20080523	8	1542.799	101.72	10.172	156.93
20080523	9	1565.199	101.95	10.195	159.57
20080523	10	1544.199	101.57	10.157	156.84
20080523	11	1408.400	101.30	10.130	142.67
20080523	12	1231.999	94.87	9.487	116.88
20080523	13	1031.799	91.41	9.141	94.32
20080523	14	817.599	97.02	9.702	79.32
20080523	15	639.800	100.62	10.062	64.38
20080523	16	573.999	95.63	9.563	54.89
20080523	17	671.999	92.14	9.214	61.92
20080523	18	907.199	89.32	8.932	81.03
20080523	19	1115.799	82.64	8.264	92.21
20080523	20	1264.199	66.73	6.673	84.36
20080523	21	1448.999	88.02	8.802	127.54
20080523	22	1559.600	86.25	8.625	134.52
20080523	23	1548.400	66.40	6.640	102.81
20080523	24	1401.400	74.86	7.486	104.91
20080524	1	1176.000	61.75	6.175	72.62
20080524	2	960.399	48.70	4.870	46.77
20080524	3	751.800	65.47	6.547	49.22
20080524	4	645.399	69.85	6.985	45.08
20080524	5	639.799	2.16	0.216	1.38
20080524	6	688.799	0.00	0.000	0.00
20080524	7	860.999	0.00	0.000	0.00
20080524	8	1057.000	56.40	5.640	59.61
20080524	9	1216.599	86.44	8.644	105.16
20080524	10	1310.399	87.30	8.730	114.40
20080524	11	1385.999	37.98	3.798	52.64
20080524	12	1219.399	83.33	8.333	101.61
20080524	13	1471.399	75.32	7.532	110.83
20080524	14	1299.199	54.86	5.486	71.27
20080524	15	1103.200	58.75	5.875	64.81
20080524	16	887.599	79.87	7.987	70.89
20080524	17	660.799	58.80	5.880	38.85
20080524	18	494.200	84.11	8.411	41.57
20080524	19	456.400	45.95	4.595	20.97
20080524	20	501.199	50.53	5.053	25.33
20080524	21	719.600	89.38	8.938	64.32
20080524	22	947.799	87.34	8.734	82.78
20080524	23	1160.600	55.92	5.592	64.90
20080524	24	1356.599	59.69	5.969	80.98
20080525	1	1478.399	64.24	6.424	94.97
20080525	2	1496.600	66.69	6.669	99.81
20080525	3	1428.000	28.29	2.829	40.40
20080525	4	1250.200	24.72	2.472	30.90
20080525	5	978.600	43.28	4.328	42.35
20080525	6	723.800	56.46	5.646	40.87
20080525	7	494.200	3.05	0.305	1.51
20080525	8	408.799	0.00	0.000	0.00
20080525	9	412.999	0.00	0.000	0.00

#019 Mine Falls

DATE	HOUR	TOTAL KWH SOLD	ISO CLEARING PRICE \$(MWH)	¢(KWH)	ENERGY PAYMENT
20080525	10	558.599	23.15	2.315	12.93
20080525	11	799.400	83.08	8.308	66.41
20080525	12	1017.800	75.95	7.595	77.30
20080525	13	1226.400	77.20	7.720	94.68
20080525	14	1350.999	79.60	7.960	107.54
20080525	15	1363.599	52.20	5.220	71.18
20080525	16	1334.200	84.35	8.435	112.54
20080525	17	1167.600	49.52	4.952	57.82
20080525	18	957.599	38.00	3.800	36.39
20080525	19	730.800	70.72	7.072	51.68
20080525	20	568.400	49.80	4.980	28.31
20080525	21	534.799	69.40	6.940	37.12
20080525	22	592.200	51.43	5.143	30.46
20080525	23	740.599	83.34	8.334	61.72
20080525	24	898.799	74.73	7.473	67.17
20080526	1	1047.199	25.79	2.579	27.01
20080526	2	1175.999	1.69	0.169	1.99
20080526	3	1192.799	0.00	0.000	0.00
20080526	4	1192.799	0.00	0.000	0.00
20080526	5	1160.600	0.00	0.000	0.00
20080526	6	1056.999	65.51	6.551	69.24
20080526	7	932.400	64.02	6.402	59.69
20080526	8	802.199	41.88	4.188	33.60
20080526	9	656.599	27.65	2.765	18.15
20080526	10	576.800	89.25	8.925	51.48
20080526	11	566.999	88.78	8.878	50.34
20080526	12	648.199	85.23	8.523	55.25
20080526	13	848.399	83.93	8.393	71.21
20080526	14	1055.600	88.49	8.849	93.41
20080526	15	1203.999	94.01	9.401	113.19
20080526	16	1276.799	92.12	9.212	117.62
20080526	17	1297.799	93.45	9.345	121.28
20080526	18	1231.999	94.65	9.465	116.61
20080526	19	1058.400	93.81	9.381	99.29
20080526	20	851.200	90.96	9.096	77.43
20080526	21	751.800	106.15	10.615	79.80
20080526	22	922.599	88.42	8.842	81.58
20080526	23	1324.400	77.16	7.716	102.19
20080526	24	1639.400	50.35	5.035	82.54
20080527	1	1744.399	88.58	8.858	154.52
20080527	2	1751.400	84.06	8.406	147.22
20080527	3	1752.800	78.05	7.805	136.81
20080527	4	1754.199	61.55	6.155	107.97
20080527	5	1755.599	72.58	7.258	127.42
20080527	6	1754.199	66.73	6.673	117.06
20080527	7	1752.799	58.42	5.842	102.40
20080527	8	1747.199	99.93	9.993	174.60
20080527	9	1702.399	145.49	14.549	247.68
20080527	10	1252.999	178.98	17.898	224.26
20080527	11	239.400	330.28	33.028	79.07
20080527	12	243.599	351.91	35.191	85.72
20080527	13	453.599	203.09	20.309	92.12
20080527	14	242.200	222.54	22.254	53.90
20080527	15	193.200	169.04	16.904	32.66
20080527	16	196.000	112.70	11.270	22.09
20080527	17	305.199	175.77	17.577	53.64
20080527	18	698.599	171.07	17.107	119.51
20080527	19	1194.199	186.06	18.606	222.19
20080527	20	1584.799	119.59	11.959	189.53

#019 Mine Falls

DATE	HOUR	TOTAL KWH SOLD	ISO CLEARING PRICE \$(MWH)	¢(KWH)	ENERGY PAYMENT
20080527	21	1773.799	149.06	14.906	264.40
20080527	22	1786.399	112.07	11.207	200.20
20080527	23	1787.799	89.84	8.984	160.62
20080527	24	1787.799	69.74	6.974	124.68
20080528	1	1789.199	95.38	9.538	170.65
20080528	2	1789.199	86.66	8.666	155.05
20080528	3	1790.600	78.60	7.860	140.74
20080528	4	1787.799	84.04	8.404	150.25
20080528	5	1789.200	136.51	13.651	244.24
20080528	6	1787.799	87.10	8.710	155.72
20080528	7	1780.800	79.92	7.992	142.32
20080528	8	1765.400	93.97	9.397	165.89
20080528	9	1749.999	93.86	9.386	164.25
20080528	10	1721.999	93.52	9.352	161.04
20080528	11	1679.999	91.99	9.199	154.54
20080528	12	1437.800	92.47	9.247	132.95
20080528	13	914.200	94.19	9.419	86.11
20080528	14	1405.599	97.27	9.727	136.72
20080528	15	1391.599	95.10	9.510	132.34
20080528	16	814.799	99.24	9.924	80.86
20080528	17	540.400	103.19	10.319	55.76
20080528	18	400.399	113.82	11.382	45.57
20080528	19	263.200	91.01	9.101	23.95
20080528	20	226.799	92.71	9.271	21.03
20080528	21	230.999	119.18	11.918	27.53
20080528	22	316.399	99.86	9.986	31.60
20080528	23	509.599	88.18	8.818	44.94
20080528	24	729.400	101.50	10.150	74.03
20080529	1	904.399	82.88	8.288	74.96
20080529	2	938.000	77.82	7.782	73.00
20080529	3	932.400	77.59	7.759	72.34
20080529	4	839.999	91.31	9.131	76.70
20080529	5	672.000	87.47	8.747	58.78
20080529	6	436.799	76.53	7.653	33.43
20080529	7	294.000	82.77	8.277	24.33
20080529	8	225.400	86.99	8.699	19.61
20080529	9	204.399	90.94	9.094	18.59
20080529	10	233.800	92.80	9.280	21.70
20080529	11	291.199	122.83	12.283	35.77
20080529	12	559.999	104.22	10.422	58.36
20080529	13	781.200	121.97	12.197	95.28
20080529	14	856.799	117.48	11.748	100.66
20080529	15	918.399	136.84	13.684	125.67
20080529	16	921.200	136.42	13.642	125.67
20080529	17	844.200	124.69	12.469	105.26
20080529	18	652.400	117.20	11.720	76.46
20080529	19	443.799	92.21	9.221	40.92
20080529	20	230.999	113.37	11.337	26.19
20080529	21	197.400	192.83	19.283	38.06
20080529	22	198.799	145.97	14.597	29.02
20080529	23	208.599	84.70	8.470	17.67
20080529	24	278.599	78.40	7.840	21.84
20080530	1	460.600	76.13	7.613	35.07
20080530	2	642.599	53.36	5.336	34.29
20080530	3	753.199	106.04	10.604	79.87
20080530	4	792.400	94.10	9.410	74.56
20080530	5	810.599	94.26	9.426	76.41
20080530	6	755.999	63.13	6.313	47.73
20080530	7	649.600	56.91	5.691	36.97

#019 Mine Falls

DATE	HOUR	TOTAL KWH SOLD	ISO CLEARING PRICE \$(MWH)	¢(KWH)	ENERGY PAYMENT
20080530	8	471.799	87.40	8.740	41.24
20080530	9	285.599	112.43	11.243	32.11
20080530	10	195.999	136.03	13.603	26.66
20080530	11	193.199	122.67	12.267	23.70
20080530	12	194.600	105.98	10.598	20.62
20080530	13	232.399	93.01	9.301	21.62
20080530	14	379.399	90.39	9.039	34.29
20080530	15	576.800	112.89	11.289	65.11
20080530	16	695.800	105.95	10.595	73.72
20080530	17	741.999	122.93	12.293	91.21
20080530	18	748.999	119.18	11.918	89.27
20080530	19	736.399	95.73	9.573	70.50
20080530	20	635.600	90.54	9.054	57.55
20080530	21	468.999	112.24	11.224	52.64
20080530	22	344.399	101.79	10.179	35.06
20080530	23	246.400	125.36	12.536	30.89
20080530	24	197.399	140.81	14.081	27.80
20080531	1	200.200	84.97	8.497	17.01
20080531	2	265.999	62.54	6.254	16.64
20080531	3	387.799	78.40	7.840	30.40
20080531	4	508.199	50.36	5.036	25.59
20080531	5	629.999	88.75	8.875	55.91
20080531	6	716.799	84.12	8.412	60.30
20080531	7	739.199	46.40	4.640	34.30
20080531	8	751.799	54.16	5.416	40.72
20080531	9	732.200	102.93	10.293	75.37
20080531	10	608.999	130.13	13.013	79.25
20080531	11	481.599	120.67	12.067	58.11
20080531	12	335.999	109.12	10.912	36.66
20080531	13	215.599	113.93	11.393	24.56
20080531	14	205.799	111.66	11.166	22.98
20080531	15	258.999	113.81	11.381	29.48
20080531	16	347.199	119.82	11.982	41.60
20080531	17	481.600	127.56	12.756	61.43
20080531	18	631.399	123.68	12.368	78.09
20080531	19	719.599	112.25	11.225	80.77
20080531	20	747.599	117.19	11.719	87.61
20080531	21	748.999	136.40	13.640	102.16
20080531	22	732.200	104.70	10.470	76.66
20080531	23	642.599	96.68	9.668	62.13
20080531	24	471.800	97.40	9.740	45.95
		<u>Total Energy</u>			<u>Energy Payment</u>
		1,278,346.537			\$136,593.78



2845 Bristol Circle,
Oakville, Ontario, L6H 7H7
Tel 905-465-4500; Fax 905-465-4500

Via E-mail

Date: June 4, 2008 File: 609.7.3

From: Doina Tomescu
Algonquin Power Systems Inc.
Tel: (905) 465-4532 Fax: (905) 465-4514

To: Danielle Martineau
Public Service of New Hampshire
Fax: (603) 634-2449

Re: **MINE FALLS G.S. (PSNH #019)**

Total Pages: (2)

Dear Danielle:

Please find enclosed the approved invoice for the period of May 1, 2008 through May 31, 2008 for the above mentioned generating station. The original will be forwarded by mail to your attention.

Should you have any questions/concerns regarding the above, please contact the undersigned at (905) 465-4532, at your earliest convenience.

Best regards,
Doina Tomescu

Doina Tomescu

From: Doina Tomescu
Sent: June 4, 2008 3:05 PM
To: 'martide@nu.com'
Subject: PSNH inv - B1 May '08

Attachments: PSNH inv - Batch 1 May 2008.pdf



PSNH inv - Batch 1
May 2008.pd...

Hi Danielle,

Here is today's batch.
Thank you.

Best regards,
Doina Tomescu
Algonquin Power
Phone: (905) 465-4532

PSNH INTERCONNECTION REPORT FOR
CUSTOMER GENERATION

MINE FALLS HYDRO

SESD SITE NO. 019

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I. INTRODUCTION

A study has been performed to determine the impact of this proposed facility on the PSNH system. All technical analysis was based on the equipment listed under Section II, and the facility arrangement illustrated on partial one-line diagram SK-PCM-019-2. Where actual site-specific data was not readily available, estimated or "typical" values were utilized in any required calculations. Any deviation from the listed equipment of the illustrated configuration may have significant safety and/or technical ramifications. Consequently, if changes are anticipated now or in the future, PSNH should be informed immediately so that the requirements and recommendations contained within the report may be revised where necessary. This procedure will ensure that the Developer is informed of PSNH requirements in a timely fashion and should eliminate the delays and expense which could otherwise be experienced by the Developer.

II. DESCRIPTION OF MAJOR COMPONENTS

A. Description Of Facilities

The proposed facility consists of two 1500 KW synchronous generators at 4.16 kV, two generator breakers and a single 3750 kVA generator step up transformer. The electrical output will be delivered through a type VSO 34.5 kV recloser and a three phase isolating switch to PSNH circuit 3154 in Nashua, N.H. All station service will be taken from a separately metered tap off the 3154 circuit. Sketch SK-PCM-019-2 shows the major system components in one line fashion. The N.H.W.R.B. dam number is 165.01.

B. Mechanical Components

Turbines - (2) Allis-Chalmers, Vertical-shaft, Semi-Kaplan, Tubular units.

Governors - Programmable Controller, No formal governor

C. Electrical Components - Per Unit

Exciter - 250V Siemens Allis

Generator - Siemens Allis 1667 kVA, 4.16 kV, 300 RPM

Voltage Regulator - Basler Solid State

Generator Stepup Transformer - McGraw Edison, 3750 kVA, 4.16 kV
Delta - 19.9/34.5 kV Wye (reactor grounded),
200 kV BIL

Hi-Side Neutral Reactor - 40 OHMS at 60 Hz, 200 kV BIL, 20 Amps
continuous, 300A Isc for 10 seconds

Hi-Side Interrupter - McGraw Edison, Type VSO Recloser

III. PSNH REQUIREMENTS - GENERAL

A. Safety Considerations

1. The connection of the facility to the PSNH system must not compromise the safety of PSNH's customers, personnel, or the owner's personnel.
2. The generating facility must not have the capability of energizing a de-energized PSNH circuit.
3. A three-phase airbreak will provide visual indication, while the ME control for the VSO reclosed will provide status information.
4. The settings for all protective relays required by PSNH will be developed by PSNH.
5. A crew of PSNH relay technicians will apply settings to and verify the proper functioning of those protective systems required by PSNH. This work will be performed at the Developer's expense.
6. The generating facility has full responsibility for ensuring that the protective system and the associated devices are maintained in reliable operating condition. PSNH reserves the right to inspect and test all protective equipment at the interconnecting point whenever it is considered necessary. This inspection may include tripping of the breakers.
7. The short circuit interrupting device(s) must have sufficient interrupting capacity for all faults that might exist. The PSNH system impedance at the facility will be supplied on request.
8. All shunt-tripped short circuit interrupting devices applied to generators must be equipped with reliable power sources. A D.C. battery with associated charging facilities is considered a reliable source. If the Developer continues present plans to use capacitor trip devices for the generator breakers and some auxiliary circuits, a breaker failure scheme will be required. This control circuit will start a timer whenever a PSNH required relay calls for a trip operation. If in approximately one second a successful operation has not occurred, device 52L will be tripped to the lockout position. This control circuit must be on a dedicated AC circuit and monitored by a utility grade 27 device.
9. Any protection scheme utilizing AC control power must be designed in a fail-safe mode. That is, all protective components must utilize contacts which are closed during normal operating conditions, but which open during abnormal conditions or when control power is lost to de-energize the generator control coil.

10. A complete set of AC and DC elementary diagrams showing the implementation of all systems required by PSNH must be supplied for PSNH review. These drawings should be supplied as soon as possible so that any non-conforming items may be corrected by the Developer without impacting the scheduled completion date of the facility.
11. All voltage transformers driving PSNH-required protection systems must be rated by the manufacturer as to accuracy class, and must be capable of driving their connected burdens with an error not exceeding 1.2 percent.
12. All current transformers driving PSNH-required protection systems must be rated by the manufacturer as to accuracy class and must be capable of driving their connected burdens with an error not exceeding 10 percent.
13. All PSNH-required protective relays, and any other relays which PSNH will be requested to test, must be equipped with test facilities which allow secondary quantity injection and output contact isolation.
14. It is not the policy of PSNH to maintain a stock of protective relays for resale to facility developers. Since many protective devices have delivery times of several months, Developers are strongly advised to order them as soon as possible after PSNH type-approval is received.
15. Protection of the generating facility equipment for problems and/or disturbances which might occur internal or external to the facility is the responsibility of the Developer.
16. No operation of the facility's generation is allowed until all requirements in Sections III and IV of this report have been met, and all systems required therein, are in place, calibrated, and, if applicable, proven functional. This requirement may be waived by PSNH for a given system if generation is required to demonstrate the proper functioning of that system.

B. Service Quality Considerations

1. The connection of the facility to the PSNH system must not reduce the quality of service currently existing on the PSNH system. Voltage fluctuations, flicker, and excessive voltage and current harmonic content are among the service quality considerations. Harmonic limitations should conform to the latest IEEE guidelines and/or ANSI standards.
2. In-general, induction generators must be accelerated to "synchronous" speed prior to connection to the PSNH system to reduce the magnitude and duration of accelerating current and resulting voltage drop to PSNH customers to acceptable levels.

3. In general, synchronous generators may not use the "pull-in" method of synchronizing due to excessive voltage drops to PSNH customers.
4. Power factor correction capacitors may be required for some facilities either at the time of initial installation, or, at some later date. The installation will normally be done by the Developer at his expense.
5. Certain facilities having installed capacity similar in magnitude to connected circuit load may require that control modifications be made to tap changers in the electrical vicinity. Should they be necessary, the modification will be made at the Developers' expense.
6. Automatic reclosing of the PSNH circuit after a tripping operation may occur after an appropriate time delay. If voltage blocking of automatic reclosing is required, it will be added at the Developers' expense.

C. Metering Considerations

1. Except for metering and protection/control voltage sensing and generator and/or capacitor contactor supply voltage, no unmetered AC power shall be taken from the PSNH system.
2. The following is a list of information which is required by the PSNH Power Supply Department for generators of this size.
 - Report on a daily basis, twenty-four hours of hourly generation. Values are to be reported in tenths of a MWH. Hourly generation is the gross or net value as agreed upon in the contract.
 - Report a meter reading on a weekly basis to correct any discrepancies in the hourly totals.
 - Provide on a monthly basis, a printed log of date, time and hourly generation for each day of the month. Metering required for watthour records will be either magnetic tape or electronic recorders as specified in CRS #13.
 - The Station Operator is to report expected output for the following day, outage and return times, and significant limitations to the PSNH dispatcher.
 - The dates planned for annual inspection along with any flexibility in the planned period should be available to ~~PSNH in accordance with NEPEX Operating Procedure #5.~~
 - Using monthly meter readings, submit a calculated bill for generation supplied to PSNH.

D. System Operation

Voltage levels on the PSNH system must be maintained at PUC approved values. No problems are presently anticipated under normal conditions with full generator output from this site. On rare contingencies output may have to be reduced to maintain proper voltages.

IV. PSNH REQUIREMENTS - SPECIFIC

A. System Configuration and Protection

1. The facility must be arranged and equipped as per partial one line diagram SK-PCM-019-2.
2. The following protective functions must be supplied and connected to automatically trip the generator breaker. These devices must be utility grade as approved by PSNH.

- 32 - Reverse Power
- 51 V - Voltage restrained overcurrent
- 810 - Overfrequency
- 81U - Underfrequency
- 27/59 - Over/Under voltage
- VSO-Ground fault sensing

3. The facility generator stepup transformer (GSU) must have a GR. wye (w/reactor) to Delta winding configuration. The neutral reactor will be 40 ohms at 60 Hz, 20A continuous, with an ISC capability of 300A symmetrical for 10 seconds.

The high side interrupter will be McGraw Edison type VSO, 34.5 kV. It's ground plug will be selected to provide ground fault protection for the PSNH system. The phase and ground plugs have also been selected to monitor the cable between the VSO and the generator step up transformer. The following elements of the VSO were required by PSNH:

- Extra Creepage Bushings #KA13W
- Instantaneous Lockout Accessory #KA1036ME8
(with Phase and Ground Multiples of 16)
- 100 Amp Phase Plugs
- 25 Amp Ground Plugs
- No #1 Socket Plugs, Phase or Ground
- #2 Socket Plugs: Phase "Y", Ground #16
- Reclosing Intervals: 30 Seconds
- Reset Delay: 120 Seconds

B. System Metering

1. The facility must be equipped with the metering system as shown on partial one line diagram SK-PCM-019-2.
2. The metering for each generator must consist of the following components or approved equivalent.
 1. 1 - JEM-2 multifunction meter, 3 phase, 3 wire, 2 stator, class 10, 120V, VTR - 4200/120, CTR = 400/5, with transformer loss compensation option, switchboard configuration.
 2. 1 - Watthour pulse data collector, Form A input, Precision Digital 1045-2C-SC-N-N (only one required for 2 machine output).
 3. 2 - Current transformers, CTR = 400/5, Accuracy class 0.3B0.5.
 4. 2 - Potential transformers, VTR = 4200/120, 2 primary fuses, GE type JVM-3, accuracy class 0.3 @ burdens W, X, M and Y.
 5. 1 - 10 pole test switch, Meter Devices cat. no. A1989-C or equivalent.

NOTE: Item 5 is necessary to permit isolating CT and VT secondaries for testing. This function may be provided by other test devices either separately mounted or furnished within a switchboard case.

C. Primary Interconnection

The only changes required to the PSNH primary are those from the 3154 tap to the airbreak structure. This will include the tap itself plus the takeoff point for station service.

V. PSNH PRICE ESTIMATES

The following estimates for labor, materials, and overheads are supplied as an aid to the Developer for financial planning purposes. Should the Developer elect to have PSNH perform any of the work described in the estimates, he will ultimately be billed for the full actual cost of any work performed.

Authorization for PSNH to perform any of the work or supply any of the equipment described below must be forwarded to the Director Supplemental Energy Sources Department along with a minimum payment covering 50% of the estimated labor and materials cost. PSNH will neither perform work nor order materials until this requirement has been met.

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A. System Protection

1. The Developer is providing all system protection equipment.

\$ 0.00

2. Estimated labor and overheads to apply settings and trip test all PSNH required protective relays.

Subtotal \$1,800.00

B. System Metering

1. Labor to test the (2) JEM-2, verify compensation, verify connections, vector analysis and supervision of the metering installation.

Subtotal \$ 500.00

C. Primary Interconnection

1. Provide all materials (except pole bands, recloser and airbreak switch) from and including the primary connections at the customers step-up transformer to and including all connections to the #3154 line.

Subtotal \$18,000.00

2. Labor to install equipment in item (1).

Subtotal \$ 2,000.00

GRAND TOTAL \$22,300.00

VI. INTERCONNECTION EQUIPMENT OWNERSHIP, OPERATION, AND MAINTENANCE

A. Delivery Point

6

For the purpose of establishing ownership, operation, and maintenance responsibilities, the location of facility energy delivery to PSNH (the "Delivery Point") must be defined. At this facility, the delivery point is located at the PSNH side of the three phase air-break switch.

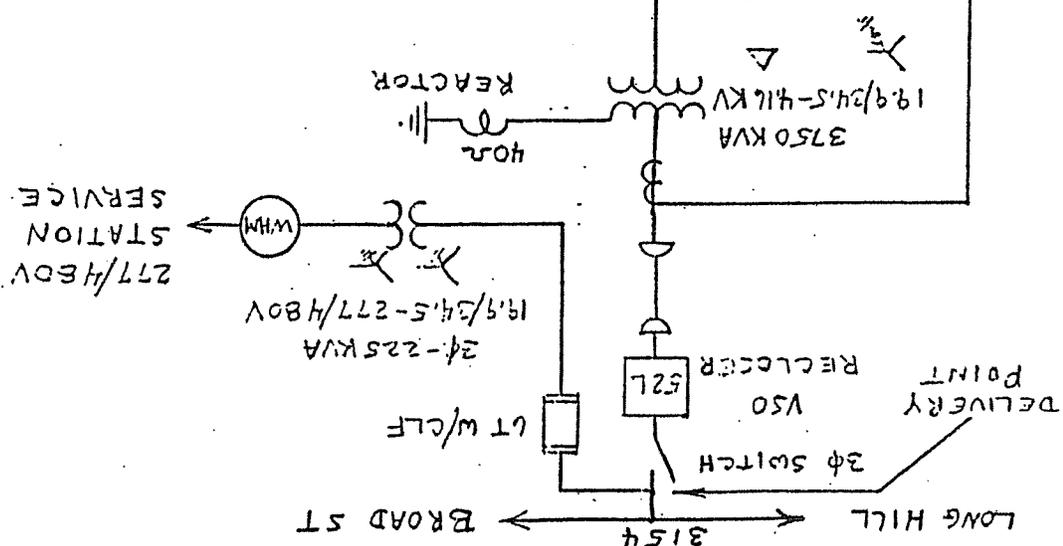
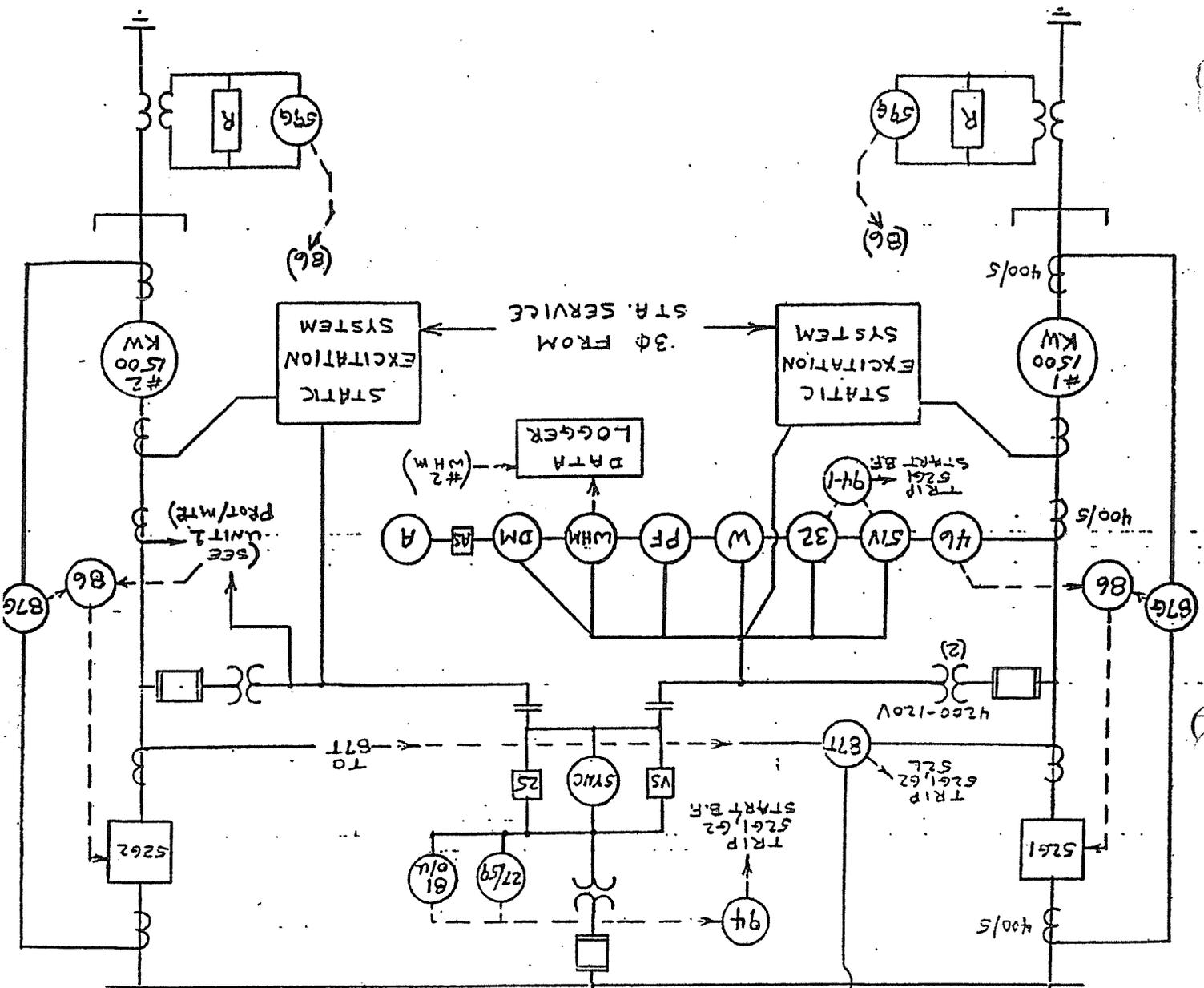
B. Description of Responsibilities

Two 35' poles will be required for the interconnection. PSNH will own one 35' pole, insulators and wire to tap to the 3154 transmission line, and cutouts, terminators, arresters, and cable located on that pole for station service. The Developer will own and maintain the airbreak, 10 kVA transformer, and associated taps on the pole PSNH owns, the second 35' pole and all equipment located on it, plus all equipment into and throughout the plant.

VII. DRAWINGS

1. One line diagram SK-PCM-019-2 is attached.

P. C. Martin
February 28, 1985



BY: P.C.M. DATE: 2/22/55 SUBJECT: MINE FALLS HYDRO
 LERP # 019
 SK-PCM-019-2
 RPT SECTION VII.A
 SHEET NO. 1 OF 1
 JOB NO.
 DATE